

ABSTRACT

A capacitor is disclosed which includes at least one electrochemical cell. The cell includes a cathode having a coating of an amorphous metal oxide, an anode having a coating of an amorphous metal oxide and a substrate layer containing an electrolyte disposed between the cathode and anode. A conductive rubber layer is positioned on the exterior surface of both the cathode and the anode, and first and second current collectors are disposed, respectively, adjacent the outer surfaces of the conductive rubber layers. Finally, a metallic coating is interposed between each rubber layer and its adjacent current collector to reduce the contact resistance present in the capacitor.